

A New Species of the Genus *Chrysso*  
(Araneae: Theridiidae)  
from Japan

Hajime Yoshida<sup>1)</sup>

吉田 哉<sup>1)</sup>：日本産のコガネヒメグモ属  
(クモ目：ヒメグモ科) の 1 新種

**Abstract** A new species of the family Theridiidae is described from Japan under the name, *Chrysso bimaculata*.

Eight species of the genus *Chrysso* have been recorded from Japan (Yoshida 1993, 1996). Another species of this genus was collected by M. Ban, T. Hiramatsu and Y. Ihara from Honshu and Shikoku, Japan. As the result of my close examination, this species is recognized as a new species.

In this paper, I describe a new species of the genus *Chrysso*.

The holotype and allotype of the new species described in this paper are deposited in the collection of the National Science Museum (Natural History), Tokyo, and the paratype is preserved in my private collection.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye(s); AME, anterior median eye(s); MOA, median ocular area; PLE, posterior lateral eye(s); PME, posterior median eye(s).

I wish to express my sincere thanks to Mr. Mitsuru Ban, Kanagawa, Mr. Takehisa Hiramatsu, Saitama, and Mr. Yo Ihara, Hiroshima, for offering valuable specimens for the present study.

*Chrysso bimaculata* sp. nov.  
(Figs. 1-6)

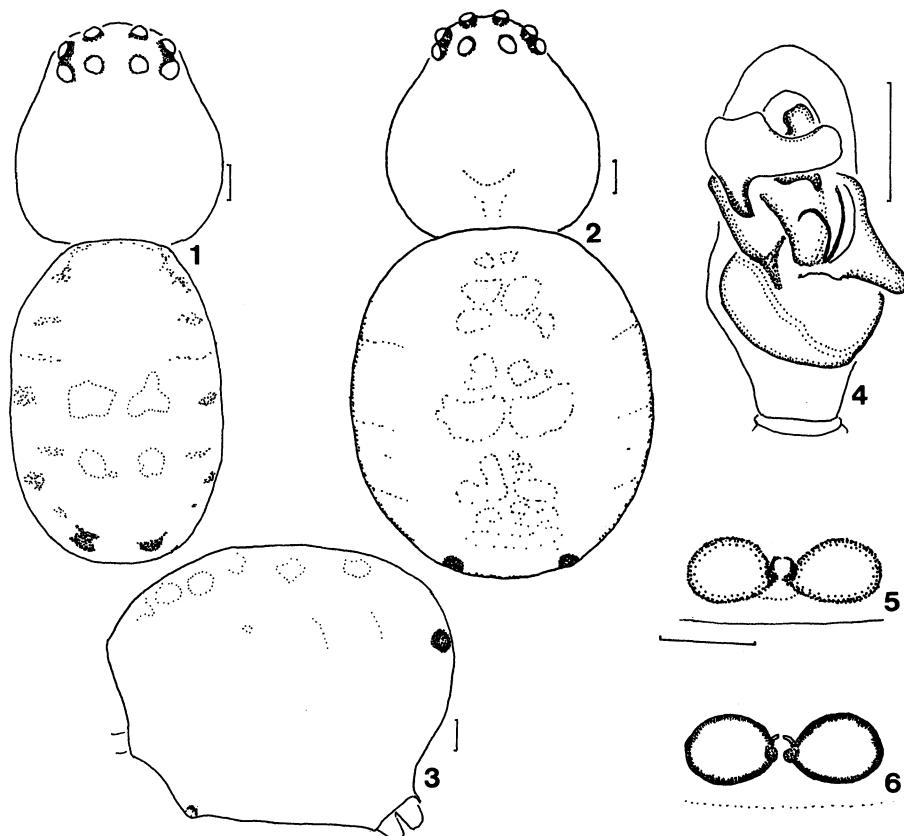
**Male** (holotype). Total length 1.55 mm. Carapace length 0.71 mm; width 0.63 mm. Abdomen length 0.84 mm; width 0.53 mm; height 0.53 mm. First leg: femur 1.55 mm; patella and tibia 1.55 mm; metatarsus 1.61 mm; tarsus 0.53 mm. Second patella and tibia 1.03 mm; third patella and tibia 0.66 mm; fourth patella and tibia 0.92 mm.

Carapace circular, slightly longer than wide, with round thoracic groove. Diameters in ratio, AME: ALE: PME: PLE = 4: 6: 5: 5. AME seven-fourths their diameter apart and a half from ALE. PME five-sixths their diameter apart and from PLE. ALE and PLE almost touching. Ratio of MOA, anterior width: posterior width: length = 14: 15: 12. Abdomen longer than wide and high, with posterior tip. Palpal

1) 7-16, Kagota 2 Chome, Yamagata-shi, Yamagata, 990-2484 Japan

〒990-2484 山形市籠田2丁目7番16号

Accepted October 26, 1998



Figs. 1-6. *Chryso bimaculata* sp. nov. — 1, Male carapace and abdomen, dorsal view; 2, female carapace and abdomen, dorsal view; 3, female abdomen, lateral view; 4, male palpus, ventral view; 5, epigynum, ventral view; 6, female genitalia, dorsal view. (Scales: 0.1 mm).

organ as shown in Fig. 4.

**Coloration.** Basal color yellowish white. Eyes on the dark bases. First and second tibiae with distally dusky rings. Abdomen with dorsal white pigments, some pairs of lateral black indistinct thin flecks and a pair of posterior distinct black spots (Fig. 1).

**Female (allotype).** Total length 1.79 mm. Carapace length 0.74 mm; width 0.66 mm. Abdomen length 1.05 mm; width 0.87 mm; height 1.00 mm. First leg: femur 1.63 mm; patella and tibia 1.55 mm; metatarsus 1.58 mm; tarsus 0.53 mm. Second patella and tibia 1.00 mm; third patella and tibia 0.66 mm; fourth patella and tibia 1.05 mm.

AME smaller than the others (4: 5). AME five-fourths their diameter apart and a half from ALE. PME their diameter apart and four-fifths from PLE. Ratio of MOA, anterior width: posterior width: length = 11: 14: 10. Genital organ as shown in Figs. 5-6: seminal receptacles large and oval. Abdomen yellowish white with three pairs of

lateral black indistinct thin lines and a pair of posterior large black spots (Figs. 2-3). Other characters as same as in the male holotype.

*Type series.* Holotype: ♂, Fudeyama Park, Kochi-shi, Kochi Prefecture, Japan, 23-III-1997 (adult on 31-III-1997), T. Hiramatsu leg., (NSMT-Ar 4148). Allotype: ♀, Yadorogi, Matsuda-machi, Kanagawa Prefecture, Japan, 23-VII-1994, M. Ban leg., (NSMT-Ar 4149). Paratype: 1 ♀, Akashi, Hatsukaichi-shi, Hiroshima Prefecture, Japan, 30-VI-1991, Y. Ihara leg.

*Distribution.* Japan: Honshu (Kanagawa and Hiroshima Prefectures) and Shikoku (Kochi Prefecture).

*Remarks.* This species resembles *Chrysso punctifera* (Yaginuma, 1960), but is distinguished from the latter by the small size, the color and the genital organ. The present new species is also similar to *Chrysso viridiventris* Yoshida, 1996 in general appearance, but is distinguishable from the latter by the basal color, the abdomen with dorsal white pigments and the genital organ.

*Etymology.* The specific name is after the two distinct black spots on the posterior tip of the abdomen.

## 摘要

日本(本州, 四国)産のヒメグモ科コガネヒメグモ属の1新種 *Chrysso bimaculata* sp. nov. フタホシヒメグモ(新称)を記載した。

## References

- Yaginuma, T., 1960. Spiders of Japan in Colour. vi+186+8 pp., 56 pls. Hoikusha, Osaka. (In Japanese.)  
Yoshida, H., 1993. East Asian species of the genus *Chrysso* (Araneae: Theridiidae). *Acta arachnol.*, **42**: 27-34.  
Yoshida, H., 1996. A new species of the genus *Chrysso* (Araneae: Theridiidae) from the Ryukyus, Japan and Taiwan. *Acta arachnol.*, **45**: 139-141.